QC ABSTRACT

NAME OF WORK: Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	61.14	10	10
8	RMC(M20)	Compressive Strength(7days and 28days)	9 set /250-300 cum	258.3	18	18

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-08-20-47 **Date: 15-05-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.99	–
2	Finess by Air permeablity method (m^2/kg,Min)	297.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-08-20-47 **Date: 10-06-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2020-08-20-47 **Date: 15-05-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-05-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	5048	5263	35.1	64.9	30-70
4	10 mm	7133	12396	82.6	17.4	10-35
5	4.75 mm	2122	14518	96.8	3.2	0-5
6	Pan	482	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-20-47** **Date: 15-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.3**	
3	Specific Gravity	**2.57**	–
4	Bulk Density(Loose) (Kg/l)	**1.39**	–
5	Bulk Density(Compacted) (Kg/l)	**1.42**	–
6	Water Absorption(%)	**0.25**	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-20-47** **Date: 14-05-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	194	194	3.9	96.1	90-100
3	10 mm	2715	2909	58.2	41.8	25-55
4	4.75 mm	1987	4896	97.9	2.1	0-10
5	Pan	104	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-08-20-47 **Date: 14-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.58	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.27	–
7	Aggregate crushing Value(%)	23.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2020-08-20-47 **Date: 14-05-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	12-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-08-20-47 **Date: 14-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.4	–
2	Specific Gravity	2.6	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-08-20-47** **Date: 13-05-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	12-05-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2020-08-20-47 **Date: 01-06-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-20
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	27/05/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 26/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	26/05/2020	149.01 X 150.96 X 150.21	22495	**8.442**	286.7	12.7	12.3
2	PCC	M15	19/05/2020	26/05/2020	151.37 X 150.27 X 151.86	22746	**8.283**	277.0	12.2	
3	PCC	M15	19/05/2020	26/05/2020	149.08 X 150.70 X 149.51	22466	**8.159**	271.7	12.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 16/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	16/06/2020	150.94 X 151.09 X 149.84	22806	**8.978**	406.4	17.8	17.5
2	PCC	M15	19/05/2020	16/06/2020	150.83 X 149.23 X 151.67	22509	**8.225**	390.5	17.4	
3	PCC	M15	19/05/2020	16/06/2020	149.44 X 151.86 X 150.20	22694	**8.922**	394.6	17.4	

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

Suvitha-N R
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 26/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	26/05/2020	151.58 X 149.83 X 151.31	22712	8.442	287.1	12.6	12.6
2	PCC	M15	19/05/2020	26/05/2020	149.42 X 149.47 X 149.11	22335	8.283	284.3	12.7	
3	PCC	M15	19/05/2020	26/05/2020	150.94 X 150.27 X 151.09	22682	8.159	283.2	12.5	

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Sreenath - N K
AE 010

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-08-20-47 **Date: 16/06/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/231/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-05-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	16/06/2020	149.81 X 150.42 X 151.50	22535	8.978	388.8	17.3	17.3
2	PCC	M15	19/05/2020	16/06/2020	151.89 X 150.14 X 151.37	22805	8.225	400.7	17.6	
3	PCC	M15	19/05/2020	16/06/2020	149.09 X 150.47 X 149.89	22433	8.922	383.8	17.1	

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Suvetha - N R
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 26/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	26/05/2020	151.93 X 150.78 X 150.32	22909	**8.442**	283.1	12.4	12.7
2	PCC	M15	19/05/2020	26/05/2020	151.06 X 151.69 X 150.67	22915	**8.283**	293.4	12.8	
3	PCC	M15	19/05/2020	26/05/2020	150.21 X 149.53 X 151.31	22461	**8.159**	289.7	12.9	

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Suvitha. NK
AE W10

Assistant Executive Engineer
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BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 16/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	16/06/2020	149.42 X 149.18 X 150.70	22291	**8.978**	398.5	17.9	17.5
2	PCC	M15	19/05/2020	16/06/2020	149.35 X 150.48 X 151.06	22473	**8.225**	392.8	17.5	
3	PCC	M15	19/05/2020	16/06/2020	151.81 X 149.05 X 149.04	22626	**8.922**	389.2	17.2	

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Suvetha.N.R
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bangalore-97

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 26/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	26/05/2020	150.66 X 151.11 X 150.51	22766	**8.442**	276.4	12.1	12.3
2	PCC	M15	19/05/2020	26/05/2020	150.16 X 149.12 X 150.97	22392	**8.283**	279.2	12.5	
3	PCC	M15	19/05/2020	26/05/2020	150.73 X 150.31 X 150.13	22656	**8.159**	280.9	12.4	

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Sreenath - NK
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 16/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	16/06/2020	149.78 X 149.06 X 149.85	22326	**8.978**	400.3	17.9	17.7
2	PCC	M15	19/05/2020	16/06/2020	151.28 X 149.88 X 149.40	22674	**8.225**	407.6	18.0	
3	PCC	M15	19/05/2020	16/06/2020	151.17 X 150.18 X 151.75	22703	**8.922**	390.1	17.2	

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Sreethe NK
AE 6010

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-08-20-47** **Date: 26/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	26/05/2020	151.23 X 150.27 X 151.97	22725	**8.442**	284.7	12.5	12.5
2	PCC	M15	19/05/2020	26/05/2020	150.49 X 150.77 X 149.07	22689	**8.283**	276.9	12.2	
3	PCC	M15	19/05/2020	26/05/2020	150.02 X 150.53 X 150.82	22582	**8.159**	290.0	12.8	

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Suvitha N K
AE 010

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-08-20-47** **Date: 16/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/05/2020	16/06/2020	149.24 X 149.37 X 149.05	22292	**8.978**	381.7	17.1	17.5
2	PCC	M15	19/05/2020	16/06/2020	149.64 X 150.19 X 150.05	22474	**8.225**	391.9	17.4	
3	PCC	M15	19/05/2020	16/06/2020	151.29 X 149.46 X 151.36	22612	**8.922**	405.3	17.9	

Note:
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Sweetha.NK
AE Ward 10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 30/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	149.51 X 151.62 X 149.46	22668	**8.580**	420.3	18.5	18.5
2	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	149.94 X 150.38 X 149.77	22549	**8.429**	414.3	18.4	
3	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	149.82 X 149.11 X 149.25	22340	**8.455**	415.3	18.6	

Note:
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Suvitha N K
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 20/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	151.75 X 151.39 X 150.46	22972	**8.928**	538.7	23.4	23.0
2	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	151.14 X 150.27 X 149.30	22713	**8.708**	514.2	22.6	
3	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	151.22 X 151.11 X 150.16	22851	**8.679**	526.0	23.0	

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Sweetha-NK
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

CIVIL Pro
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Date
BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 30/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	149.12 X 150.27 X 150.63	22409	**8.580**	408.4	18.2	18.4
2	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	150.80 X 150.43 X 151.39	22685	**8.429**	410.6	18.1	
3	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	151.11 X 149.18 X 150.68	22542	**8.455**	426.4	18.9	

Note:
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All information furnished by Customer/Representative
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Suvetha-NL
AE (W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Date.....
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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 20/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	150.13 X 149.73 X 149.59	22479	**8.928**	522.4	23.2	23.1
2	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	150.72 X 151.87 X 150.96	22890	**8.708**	510.1	22.3	
3	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	150.13 X 150.50 X 149.91	22594	**8.679**	540.1	23.9	

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Assistant Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 30/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	151.19 X 149.12 X 150.52	22545	**8.580**	424.7	18.8	18.6
2	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	150.25 X 150.29 X 150.05	22580	**8.429**	416.8	18.5	
3	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	151.31 X 149.60 X 150.38	22637	**8.455**	416.6	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 20/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	150.47 X 151.01 X 149.75	22723	**8.928**	525.6	23.1	23.3
2	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	150.88 X 149.01 X 150.48	22482	**8.708**	512.6	22.8	
3	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	150.36 X 149.73 X 151.26	22513	**8.679**	538.8	23.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 30/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
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Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	149.77 X 150.01 X 151.34	22467	**8.580**	423.1	18.8	18.8
2	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	150.74 X 151.04 X 149.13	22767	**8.429**	425.1	18.7	
3	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	151.90 X 149.49 X 150.82	22709	**8.455**	426.5	18.8	

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Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	149.60 X 149.85 X 151.17	22418	**8.928**	519.5	23.2	23.0
2	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	151.29 X 151.97 X 149.40	22990	**8.708**	511.5	22.2	
3	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	151.22 X 150.26 X 150.71	22722	**8.679**	537.1	23.6	

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Lab ID	:	CP-2020-08-20-47 **Date: 30/05/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	151.39 X 150.83 X 149.75	22834	8.580	433.3	19.0	18.6
2	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	151.64 X 150.37 X 151.58	22802	8.429	421.6	18.5	
3	Drain Bottom Slab Concrete	M20	23/05/2020	30/05/2020	151.94 X 149.16 X 151.73	22663	8.455	418.7	18.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/06/2020

Lab ID	:	CP-2020-08-20-47
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-05-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	149.03 X 150.81 X 151.80	22474	8.928	527.4	23.5	23.3
2	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	149.75 X 151.02 X 151.93	22615	8.708	516.3	22.8	
3	Drain Bottom Slab Concrete	M20	23/05/2020	20/06/2020	150.25 X 150.05 X 151.14	22545	8.679	529.5	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 02/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	150.28 X 151.71 X 151.20	22798	**8.580**	422.4	18.5	18.4
2	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	151.85 X 151.90 X 149.36	23066	**8.429**	420.9	18.2	
3	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	150.06 X 149.98 X 149.81	22506	**8.455**	413.0	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 23/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	149.69 X 151.43 X 150.92	22667	**8.928**	531.2	23.4	23.2
2	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	150.83 X 150.90 X 149.33	22761	**8.708**	508.4	22.3	
3	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	151.82 X 149.76 X 150.20	22735	**8.679**	538.3	23.7	

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Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	150.63 X 151.50 X 151.52	22820	**8.580**	414.4	18.2	18.3
2	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	149.53 X 150.25 X 150.78	22467	**8.429**	407.6	18.1	
3	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	151.56 X 151.15 X 151.97	22908	**8.455**	423.9	18.5	

Note:
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Samples will be disposed after 90 days from the date of issue of test certificate

Suvetha N.K
AE W10

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2020-08-20-47 **Date: 23/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	149.81 X 150.86 X 150.05	22601	**8.928**	537.8	23.8	23.4
2	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	151.21 X 151.41 X 150.32	22894	**8.708**	515.6	22.5	
3	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	150.03 X 150.33 X 149.16	22555	**8.679**	537.5	23.8	

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Sweetha.N.K
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CIVIL PRO Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/06/2020

Lab ID	:	CP-2020-08-20-47
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	150.56 X 150.31 X 151.89	22631	**8.580**	422.8	18.7	18.7
2	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	151.51 X 150.25 X 149.31	22765	**8.429**	421.2	18.5	
3	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	151.26 X 150.13 X 149.31	22708	**8.455**	426.7	18.8	

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Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvments to Roads and Drains at Ramachandrapura Hanuman Layout Patel Pillegowda Layout Ramanna Garden and Surrounding Area in Ward No 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	Sri.N.M. Shivakumar, #07, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	150.68 X 151.56 X 149.13	22837	**8.928**	543.6	23.8	23.4
2	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	149.19 X 150.98 X 151.06	22525	**8.708**	507.9	22.5	
3	Drain Side Wall Concrete	M20	26/05/2020	23/06/2020	149.45 X 150.40 X 150.85	22477	**8.679**	534.6	23.8	

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Swetha.K R
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Lab ID	:	CP-2020-08-20-47 **Date: 02/06/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
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Customer's Reference	:	BBMP/EE/BTP/WO/231/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-05-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	150.26 X 150.40 X 149.79	22599	**8.580**	426.1	18.9	18.5
2	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	151.44 X 149.15 X 151.19	22587	**8.429**	410.1	18.2	
3	Drain Side Wall Concrete	M20	26/05/2020	02/06/2020	150.53 X 151.08 X 149.88	22741	**8.455**	418.8	18.4	

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